

UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:

Group:

Attorney Docket # 1853

Applicant(s) : HEIDRICH, M.

Serial No. :

Filed :

For : MAGNET MOUNT AND METHOD FOR SECURING A
MAGNET TO A CARRIER ELEMENT

SIMULTANEOUS AMENDMENT

October 24, 2001

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

S I R S:

Simultaneously with filing of the above identified application
please amend the same as follows:

In the Claims:

Cancel all claims without prejudice.

Substitute the claims attached hereto.

REMARKS:

This Amendment is submitted simultaneously with filing of the above identified
application.

With the present Amendment applicant has amended the claims so as to eliminate
their multiple dependency.

Consideration and allowance of the present application is most respectfully requested.

Respectfully submitted,



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Claims

1. Magnet mount (1) for at least one magnet (8), comprising one carrier element (5) and at least one restraining element (14), characterized in that the restraining element (14) is a single piece with the carrier element (5).
2. Magnet mount according to Claim 1, characterized in that the restraining element (14) is formed by an at least partially radial projection (27) protruding from the carrier element (5).
3. Magnet mount according to Claim 1[or 2], characterized in that the carrier element (5) consists of at least one sheet-metal laminate (31).
4. Magnet mount according to Claim 3, characterized in that the restraining element (14) is formed by at least one sheet-metal laminate (31).
5. Magnet mount according to [one or more of the Claims 1, 2, or 4] Claim 1, characterized in that the restraining element (14) grips in at least one notch (16) in the magnet (8).
6. Magnet mount according to [one or more of the preceding claims] Claim 1, characterized in that the carrier element (5) has a disc-shaped structure.
7. Magnet mount according to [one or more of the Claims 1 through 5] Claim 1, characterized in that the carrier element (5) has a ring-shaped structure.
8. Magnet mount according to [one or more of the preceding claims] Claim 1, characterized in that the magnet (8) has notches (16) in which the restraining element (14) grips.

1 9. Magnet mount according to Claim 8, characterized in that the notches (16)
2 in the magnet are produced during the manufacture of the magnet (8) using a hot
3 extrusion process.

4
5 10. Magnet mount according to Claim 8 [or 9], characterized in that the
6 notches (16) of the magnet (8) are ground in after the magnet (8) is produced.

7
8 11. Magnet mount according to [one or more of the preceding claims] Claim 1,
9 characterized in that the magnet mount (1) is installed in an electric motor.

10
11 12. Method for securing at least one magnet (8) to a carrier element (5) using
12 at least one restraining element (14), in particular a magnet (8) having a
13 restraining element (14) according to [one or more of the Claims 1 through 7]
14 Claim 1, characterized in that the magnet (8) is placed on the carrier element (5),
15 and the at least one restraining element (14) formed as a single piece with the
16 carrier element (5) is deformed so that it grips the magnet (8), and the magnet (8)
17 is held in place on the carrier element (5) by way of positive engagement and
18 adherence.

19
20 13. Method for securing at least one magnet (8) to a carrier element (5) using
21 at least one restraining element (14), in particular a magnet (8) having a
22 restraining element (14), according to [one or more of the Claims 1 through 7]
23 Claim 1, characterized in that the at least one restraining element (14) formed as
24 a single piece with the carrier element (5) is bent upward by the action of force so
25 that the magnet (8) can be situated on the carrier element (5), and the action of
26 force is then removed so that the restraining element (14) then grips the magnet
27 (8).

Claims

1. Magnet mount (1) for at least one magnet (8), comprising one carrier element (5) and at least one restraining element (14), characterized in that the restraining element (14) is a single piece with the carrier element (5).
2. Magnet mount according to Claim 1, characterized in that the restraining element (14) is formed by an at least partially radial projection (27) protruding from the carrier element (5).
3. Magnet mount according to Claim 1, characterized in that the carrier element (5) consists of at least one sheet-metal laminate (31).
4. Magnet mount according to Claim 3, characterized in that the restraining element (14) is formed by at least one sheet-metal laminate (31).
5. Magnet mount according to Claim 1, characterized in that the restraining element (14) grips in at least one notch (16) in the magnet (8).
6. Magnet mount according to Claim 1, characterized in that the carrier element (5) has a disc-shaped structure.
7. Magnet mount according to Claim 1, characterized in that the carrier element (5) has a ring-shaped structure.
8. Magnet mount according to Claim 1, characterized in that the magnet (8) has notches (16) in which the restraining element (14) grips.
9. Magnet mount according to Claim 8, characterized in that the notches (16) in the magnet are produced during the manufacture of the magnet (8) using a hot extrusion process.

1

2 10. Magnet mount according to Claim 8, characterized in that the notches (16)
3 of the magnet (8) are ground in after the magnet (8) is produced.

4

5 11. Magnet mount according to Claim 1, characterized in that the magnet
6 mount (1) is installed in an electric motor.

7

8 12. Method for securing at least one magnet (8) to a carrier element (5) using
9 at least one restraining element (14), in particular a magnet (8) having a
10 restraining element (14) according to Claim 1, characterized in that the magnet
11 (8) is placed on the carrier element (5), and the at least one restraining element
12 (14) formed as a single piece with the carrier element (5) is deformed so that it
13 grips the magnet (8), and the magnet (8) is held in place on the carrier element
14 (5) by way of positive engagement and adherence.

15

16 13. Method for securing at least one magnet (8) to a carrier element (5) using
17 at least one restraining element (14), in particular a magnet (8) having a
18 restraining element (14), according to Claim 1, characterized in that the at least
19 one restraining element (14) formed as a single piece with the carrier element (5)
20 is bent upward by the action of force so that the magnet (8) can be situated on
21 the carrier element (5), and the action of force is then removed so that the
22 restraining element (14) then grips the magnet (8).